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first second third fourth congestion switch flow

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[... and apparatus providing programmable thresholds for half-duplex flow control in a network switch](#)

P Simmons, B Erimli, J Sang, ETH Leung, I Crawford, ... - US Patent 6,192,028, 2001 - Google Patents  
... been proposed to reduce network congestion, where a ... pointers relative to the first queue threshold level ... pointers relative to the second queue threshold level. ...

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[Method for multi-priority, multicast flow control in a packet switch](#)

S Chong, R Nagarajan, YT Wang - US Patent 6,212,582, 2001 - freepatentsonline.com  
... of all bit streams having the first priority and ... having logical addresses mapped to said second physical address ... third logical address and the third priority; ...

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[Credit-based flow control for ATM networks](#) - [\[PDF\]](#) ► [mit.edu](#)

NT Kung, R Morris - Network, IEEE, 1995 - ieeexplore.ieee.org  
... The third section provides details of the credit mechanism ... In the first buffer allocation phase, the VC is given ... In the second credit control phase, the sender ...

[Cited by 192](#) - Related articles - Web Search - All 21 versions

[ATM switch](#)

R Simpson, N Richards, P Thompson, P Moniot, M ... - US Patent 6,144,640, 2000 - freepatentsonline.com  
... to select an output port 74 of a third stage switch 75 ... That identifies the first cell to be taken by that queue ... the next buffer row to locate the second cell to ...

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[Method and apparatus for adjusting overflow buffers and flow control watermark levels](#)

P Simmons, R De Mong... - US Patent 6,084,856, 2000 - Google Patents  
... from the external memory, and adjusts flow control watermark levels ... resources used by the network switch to be adjusted to minimize congestion by borrowing ...

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[Comparison of deflection and store-and-forward techniques in the Manhattan Street and Shuffle- ...](#)

NF Maxemchuk - INFOCOM'89. Proceedings of the Eighth Annual Joint ... 1989 - ieeexplore.ieee.org  
... with the number of messages that are-directed to each outgoing Lnk by the switch. ... Numerical values are given for the first and third characteristics in ...

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[Distributed telecommunications switching system and method](#)

DJ Kerns, PM Elliott, DH Nattkemper - US Patent 6,049,541, 2000 - Google Patents  
... up to six million bits per second (6 Mbps ... robin fashion unless the traffic congestion in controller ... First Upstream Flow Control System Because switching system ...

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[System and method for controlling data transmission between network elements](#)

TM Wicki, PJ Helland, JD Larson, A Mu, R Sastry, ... - US Patent 6,003,064, 1999 - freepatentsonline.com  
... the third router 104E, and then from the third router 104E ... SANRR 308A and BBR 312A when the first router 104A transmits a frame to the second router, then ...

[Cited by 14](#) - Related articles - Web Search - All 3 versions

### Broadband switching network

JL Adams, A Smith - US Patent 5,604,744, 1996 - freepatentsonline.com

... cells being transmitted at 1 Mbit/s, the second buffer 42 is ... being transmitted at 2 Mbit/s, the third buffer 43 is ... s buffer 42 in a first-in-first-out fashion ...

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### Method and system for controlling network service parameters in a cell based communications network

RB McClure, SA Caldara, SA Hauser, TA Manning - US Patent 5,867,663, 1999 - freepatentsonline.com

... assigning the first virtual connection to a second ... third buffer space, wherein the third buffer space is ... associating the second queue with a fourth buffer space ...

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### Flow control of frame based data over a synchronous digital network

CTW Ramsden, CD Murton, DM Goodman, JP Russell, DW ... - EP Patent 1,006,751, 2000 - freepatentsonline.com

... According to a third aspect of the present invention ... from the least significant bit 905, the first 3 bits ... with Ethernet switching standards, a second field is ...

Related articles - Web Search - All 4 versions

### Method and integrated circuit for high-bandwidth network server interfacing to a local area network ...

DH Chung - US Patent 6,122,667, 2000 - freepatentsonline.com

... and first FIFO manager 218 and a first buffer manager 220 ... second FIFO manager 234 and a second buffer manager 236 ... FIFO manager 250 and a third buffer manager 252 ...

Cited by 7 - Related articles - Web Search - All 3 versions

### [book] Traffic Management for High-Speed Networks

HT Kung - 1997 - books.google.com

... The third lecturer was John E. Hopcroft, who is the ... a VC [1 5]. In the first buffer allocation phase ... In the second credit control phase, the sender maintains a ...

Cited by 4 - Related articles - Web Search - Library Search - All 2 versions

### Switching device and method for controlling the routing of data packets

RP Luijten, M Colmant - US Patent App. 09/800,246, 2001 - Google Patents

... arrangement provides for a so-called first- buffer-then-switch ... 40%-50% thereof, ie 6.5-8 Gigabits per second. ... of data in case of congestion through blocked ...

Cited by 1 - Related articles - Web Search - All 4 versions

### Efficient point-to-point and multi-point routing mechanism for programmable packet switching nodes ...

G Lebizay, JM Munier, A Pauporte, V Spagnol - US Patent 5,602,841, 1997 - freepatentsonline.com

... a third field for identifying a first pointer (HEAD ... General Purpose Processor (GPP, 409), the first dealing with ... in term of performance, and the second with the ...

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### Client/server data traffic delivery system and method

F Wang, JS Robertson, NN Gopal, CJ Peterson, MS ... - US Patent 5,913,028, 1999 - freepatentsonline.com

... the data packet directly from the first network I/O ... computer readable third program code means for causing the ... to the client unit via the second network path. ...

Cited by 17 - Related articles - Web Search - All 3 versions

### Broadband switching network with automatic bandwidth allocation in response to data cell detection

AJ Smith, JL Adams - US Patent 5,784,358, 1998 - freepatentsonline.com

... which yields 12.5 Mbit/s plus a fifth from the first, so that the first now has 32 Mbit/s, the second still has 35 Mbit/s, the third has 20.5 Mbit/s ...

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### Data-transfer routing management for packet-oriented digital communication system including

[http://scholar.google.com/scholar?as\\_q=first+second+third+fourth+congestion+switch++fl...](http://scholar.google.com/scholar?as_q=first+second+third+fourth+congestion+switch++fl...) 8/27/2008

## ATM ...

H Easki, S Natsubori, T Saito, Y Tsuda, S ... - US Patent 5,440,547, 1995 - freepatentsonline.com  
... transmission can be performed by the first method using a broadcast channel, the  
second method using a metasignaling channel, or the third channel using ...

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## BROADBAND SWITCHING NETWORK

A Smith, JL Adams - EP Patent 0,749,668, 1999 - freepatentsonline.com  
... The first buffer 86 is arranged to buffer cells being transmitted at 1 Mbit/s, the  
second buffer 88 is ... transmitted at 2 Mbit/s, the third buffer 90 is ...

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## High-speed switching processor for a burst-switching communications system

SR Amstutz, M Eliscu, PMV Rao - US Patent 4,644,529, 1987 - freepatentsonline.com  
... If the burst has not been routed on the first byte and the second byte contains  
sufficient information for routing ... The third byte identifies the local port. ...

[Cited by 11](#) - Related articles - Web Search - All 5 versions

## System and process for application-level flow connection of data processing networks

BA Spinney, NT Poole, K Narayanaswamy, TL Ross, R ... - US Patent 6,226,267, 2001 - freepatentsonline.com  
... The first stage stores the full header information (the ... The second stage receives  
the Hash value which is ... The third stage receives the above information and ...

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## [PDF] ► The Analysis of Diskless Workstation Traffic on an Ethernet

R Gossela, CALIFORNIA UNIV BERKELEY COMPUTER ... - 1987 - eecs.berkeley.edu  
... There is a third gateway: a SUN work- station, spur-gw, between the spur network ...  
When the first buffer was full, it switched to the second one while a ...

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## Single chip universal protocol multi-function ATM network interface

MD Rostoker, DT Stelliga, P Bergantino - US Patent 5,802,287, 1998 - freepatentsonline.com  
... 2, 4, 8 or 16 cells deep) adds second layer of ... 1. Notify the Host that congestion  
has been seen utilizing the ... a CS-PDU or a data buffer) or to switch a cell ...

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## Communications subsystem for computer-based conferencing system using both ISDN B channels for ...

M Mirashrafi, K Rajamani, J Bielaszewski - US Patent 6,125,398, 2000 - freepatentsonline.com  
... Congestion Control," IEEE, 1989, pp ... window will display the local video image and  
a second child window ... at the hardware board when the stream is first captured ...

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Key authors: [N Kung](#) - [R Morris](#) - [N Maxemchuk](#) - [P Simmons](#) - [J Adams](#)

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